

B1  
continued

a reflecting mirror disposed in an optical path between the color separating optical system and at least one of the plurality of modulators and having an adjustable mounting angle with respect to an incident optical axis.

4. (Amended) The projector of claim 3, wherein a mounting angle of the reflecting mirror located closest to the modulator is adjustable.

---

7. (Amended) The projector of claim 6, further comprising a reflecting mirror provided in an optical path between the light source and the modulator, the reflecting mirror having an adjustable mounting angle with respect to an incident optical axis.

B2

8. (Amended) The projector of claim 6, further comprising:

a color separating optical system provided between the superimposor and the modulator to separate light output from the superimposor into color light beams;

a plurality of modulators connected with the color separating optical system to produce modulated light beams;

a color synthesizing optical system that receives the modulated color light beams and outputs enlarged synthesized color light beams which are projected by the projection lens; and

a reflecting mirror disposed in an optical path between the color separating optical system and at least one of the plurality of modulators and having adjustable mounting angle with respect to an incident optical axis.

9. (Amended) The projector of claim 8, wherein a mounting angle of the reflecting mirror located closest to the modulator is adjustable.

---

B3

21. (Amended) The projector of claim 20, further comprising a reflecting mirror capable of being adjusted to different mounting angles with respect to an incident optical axis and being provided in the optical path between the light source and the modulator.

22. (Amended) The projector of claim 20, further comprising:

a color separating optical system provided between the superimposor and the modulator to separate light output from the superimposor into color light beams;

a plurality of modulators connected with the color separating optical system to produce modulated color light beams;

a color synthesizing optical system that receives the modulated color light beams and outputs enlarged synthesized color light beams which are projected by the projection lens; and

a reflecting mirror disposed in an optical path between the color separating optical system and at least one of the plurality of modulators and having an adjustable mounting angle with respect to an incident optical axis.

23. (Amended) The projector of claim 22, wherein a mounting angle of the reflecting mirror located closest to the modulator is adjustable.

26. (Amended) The projector of claim 25, further comprising a reflecting mirror provided in an optical path between the light source and the modulator, the reflecting mirror having an adjustable mounting angle with respect to an incident optical axis.

27. (Amended) The projector of claim 25, further comprising:

a color separating optical system provided between the superimposor and the modulator to separate light output from the superimposor into color light beams;

a plurality of modulators connected with the color separating optical system to produce modulated light beams;

a color synthesizing optical system that receives the modulated color light beams and outputs enlarged synthesized color light beams which are projected by the projection lens; and

By  
conced

a reflecting mirror disposed in an optical path between the color separating optical system and at least one of the plurality of modulators and having adjustable mounting angle with respect to an incident optical axis.

28. (Amended) The projector of claim 27, wherein a mounting angle of the reflecting mirror located closest to the modulator is adjustable.

Please add new claims 47-52 as follows:

- B5
47. A method for manufacturing a projector that includes:  
a light source that emits a light beam;  
a modulator having an image forming area, the modulator receives the light beam emitted by the light source and outputs a modulated light beam;  
a projection lens that projects the light beam modulated by the modulator;  
an optical element, disposed in an optical path between the light source and the modulator, the optical element splits the light beam into a plurality of intermediate light beams; and  
a superimposor that superimposes each of the intermediate light beams onto the image forming area of the modulator,  
the method comprising:  
adjusting a mounting position of the superimposor; and  
fixing the superimposor after adjusting the mounting position.
48. The method for manufacturing the projector of claim 47, the projector further including:  
a color separating optical system provided between the superimposor and the modulator to separate light output from the superimposor into color light beams;  
a plurality of modulators connected with the color separating optical system to produce modulated color light beams;

a color synthesizing optical system that receives the modulated color light beams and outputs enlarged synthesized color light beams which are projected by the projection lens; and

a reflecting mirror disposed in an optical path between the color separating optical system and at least one of the plurality of modulators,

the method further comprising:

adjusting a mounting angle of the reflecting mirror with respect to an incident optical axis; and

fixing the reflecting mirror after adjusting the mounting angle.

49. The method for manufacturing the projector of claim 48, the projector further including:

a light guiding system disposed in a longest optical path between the color separating optical system and each of the plurality of modulators, the light guiding system including two lenses and an intermediate lens disposed between the two lenses,

the method further comprising:

adjusting a mounting a position of the intermediate lens; and

fixing the intermediate lens after adjusting the mounting position.

50. A method for manufacturing a projector that includes:

a light source that outputs a light beam;

a first optical element that splits the light beam output from the light source into a plurality of intermediate light beams;

a second optical element including a polarization conversion unit that outputs polarized light beams and a superimposer that superimposes light beams output from the polarization conversion unit, the second optical element arranged in a vicinity of a position where the intermediate light beams are converged, the second optical element separates the intermediate light beams from the first optical element into a p-polarized light beam and an

s-polarized light beam, the second optical element aligns a polarization direction of one of the p-polarized light beam and the s-polarized light beam, and the second optical element outputs the resulting light beams;

a modulator that receives and modulates the light beam emitted from the second optical element; and

a projection lens that projects the light beam modulated by the modulator;

the method comprising:

adjusting a mounting position of the superimposor; and

fixing the superimposor after adjusting the mounting position.

51. The method for manufacturing the projector of claim 50, the projector further including:

a color separating optical system provided between the superimposor and the modulator to separate light output from the superimposor into color light beams;

a plurality of modulators connected with the color separating optical system to produce modulated light beams;

a color synthesizing optical system that receives the modulated color light beams and outputs enlarged synthesized color light beams which are projected by the projection lens; and

a reflecting mirror disposed in an optical path between the color separating optical system and at least one of the plurality of modulators,

the method further comprising:

adjusting a mounting angle of the reflecting mirror with respect to an incident optical axis; and

fixing the reflecting mirror after adjusting the mounting angle.

52. The method for manufacturing the projector of claim 51, the projector further including: